WHAT IS CLAIMED IS:

A glycopeptide compound having at least one substituent of the formula: 1.

$$-R^a-Y-R^b-(Z)_x$$

wherein

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each Ra is independently alkylene, substituted alkylene, alkenylene, substituted alkenylene, alkynylene, substituted alkynylene, cycloalkylene, substituted cycloalkylene, cycloalkenylene, substituted cycloalkenylene, arylene, heteroarylene, heterocyclene, -C(O)-alkylene, substituted -C(O)-alkylene, -C(O)-alkenylene, substituted -C(O)-alkenvlene, -C(O)-alkynylene, substituted -C(O)-alkynylene, -C(O)-cycloalkylene, substituted -C(O)-cycloalkylene, -C(O)-cycloalkenylene, 10 substituted -C(O)-cycloalkenylene, -C(O)-arylene, -C(O)-heteroarylene, or -C(O)-heterocyclene;

each R^b is independently a covalent bond, alkylene, substituted alkylene, alkenylene, substituted alkenylene, alkynylene, substituted alkynylene, cycloalkylene, substituted cycloalkylene, cycloalkenylene, or substituted cycloalkenylene; provided R^b is not a covalent bond when Z is hydrogen;

each Y is independently selected from the group consisting of oxygen, sulfur, -S-S-, -S-C(=O)-, -C(=O)-S-, $-NR^{c}-$, -S(O)-, $-SO_{2}-$, $-NR^{c}C(O)-$, $-OSO_{2}-$, -OC(O)-, $-NR^{c}SO_{2}-$, $-C(O)NR^{c}-$, -C(O)O-, $-SO_{2}NR^{c}-$, $-SO_{2}O-$, $-P(O)(OR^{c})O-$, $-P(O)(OR^{c})NR^{c}$, $-OP(O)(OR^{c})O$, $-OP(O)(OR^{c})NR^{c}$, -OC(O)O, $-NR^{c}C(O)O$, $-NR^{c}C(O)NR^{c}$, $-OC(O)NR^{c}$, C(=O), and $-NR^{c}SO_{2}NR^{c}$;

each Z is independently selected from hydrogen, aryl, cycloalkyl, cycloalkenyl, heteroaryl and heterocyclic;

each R° is independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, cycloalkyl,

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substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, aryl, heteroaryl, heterocyclic and -C(O)R^d;

each R^d is independently selected from the group consisting of alkyl, substituted alkyl, alkenyl, substituted alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, aryl, heteroaryl and heterocyclic; and x is 1 or 2;

or a pharmaceutically acceptable salt, stereoisomer, or prodrug thereof; provided that at least one Y is -S-S- or -S-C(=O)-; and

provided the glycopeptide is not substituted at the carboxy terminus with a substituent that comprises more than one carboxy group; and

provided the glycopeptide is not substituted at the carboxy terminus with a substituent that comprises one or more saccharide groups and a carboxy group; and provided the glycopeptide is not substituted on a saccharide nitrogen that corresponds to N^{van} with a substituent that comprises two or more hydroxy groups.

- 2. The glycopeptide of claim 1 wherein each R^a is selected from the group consisting of alkylene, substituted alkylene, alkenylene, substituted alkynylene and substituted alkynylene.
 - 3. The glycopeptide of claim 1 wherein each R^b is independently selected from the group consisting of a covalent bond, alkylene, substituted alkylene, alkenylene, substituted alkynylene, provided R^b is not a covalent bond when Z is hydrogen.
 - 4. The glycopeptide of claim 1 which is a compound of formula I:

(I)

wherein:

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 R^{1} is hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, aryl, heteroaryl, heterocyclic, $-R^{a}-Y-R^{b}-(Z)_{x}$; or a saccharide group optionally substituted with $-R^{a}-Y-R^{b}-(Z)_{x}$;

 $R^2 \ is \ hydrogen \ or \ a \ saccharide \ group \ optionally \ substituted \ with \\ -R^a-Y-R^b-(Z)_x, \ R^f, \ -C(O)R^f, \ or \ -C(O)-R^a-Y-R^b-(Z)_x; \\ R^3 \ is \ -OR^c, \ -NR^cR^c, \ -O-R^a-Y-R^b-(Z)_x, \ -NR^c-R^a-Y-R^b-(Z)_x, \ -NR^cR^e, \ or \ -O-R^e; \\$

 R^4 is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkynyl, substituted alkynyl, $-R^a-Y-R^b-(Z)_x$, $-C(O)R^d$ and

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a saccharide group optionally substituted with $-R^a-Y-R^b-(Z)_x$, R^f , $-C(O)R^f$, or $-C(O)-R^a-Y-R^b-(Z)_x$;

 R^5 is selected from the group consisting of hydrogen, halo, $-CH(R^c)-NR^cR^c$, $-CH(R^c)-NR^cR^c$, $-CH(R^c)-NR^c-R^a-Y-R^b-(Z)_x$, $-CH(R^c)-R^x$, and $-CH(R^c)-NR^c-R^a-C(=O)-R^x$;

 R^6 is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkynyl, $-R^a-Y-R^b-(Z)_x$, $-C(O)R^d$ and a saccharide group optionally substituted with $-NR^c-R^a-Y-R^b-(Z)_x$, or R^5 and R^6 can be joined, together with the atoms to which they are attached, form a heterocyclic ring optionally substituted with $-NR^c-R^a-Y-R^b-(Z)_x$;

 R^7 is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkynyl, $-R^a-Y-R^b-(Z)_x$, and $-C(O)R^d$;

R⁸ is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkyl, substituted cycloalkenyl, aryl, heteroaryl and heterocyclic;

R⁹ is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkyl, substituted cycloalkenyl, aryl, heteroaryl and heterocyclic;

R¹⁰ is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkyl, substituted cycloalkenyl, aryl, heteroaryl and heterocyclic; or R⁸ and R¹⁰ are joined to form -Ar¹-O-Ar²-, where Ar¹ and Ar² are independently arylene or heteroarylene;

R¹¹ is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkenyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkyl, substituted cycloalkenyl, aryl, heteroaryl and heterocyclic, or

R¹⁰ and R¹¹ are joined, together with the carbon and nitrogen atoms to which they are attached, to form a heterocyclic ring;

 R^{12} is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkyl, substituted cycloalkenyl, aryl, heteroaryl, heterocyclic, $-C(O)R^d$, $-C(NH)R^d$, $-C(O)NR^cR^c$, $-C(O)OR^d$, $-C(NH)NR^cR^c$ and $-R^a-Y-R^b-(Z)_x$, or R^{11} and R^{12} are joined, together with the nitrogen atom to which they are attached, to form a heterocyclic ring;

R¹³ is selected from the group consisting of hydrogen or -OR¹⁴;

R¹⁴ is selected from hydrogen, -C(O)R^d and a saccharide group;

each R^a is independently selected from the group consisting of alkylene,
substituted alkylene, alkenylene, substituted alkenylene, alkynylene and substituted

each R^b is independently selected from the group consisting of a covalent bond, alkylene, substituted alkylene, alkenylene, substituted alkynylene, alkynylene and substituted alkynylene, provided R^b is not a covalent bond when Z is hydrogen;

each R^c is independently selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkenyl, substituted alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, aryl, heteroaryl, heterocyclic and $-C(O)R^d$;

each R^d is independently selected from the group consisting of alkyl, substituted alkyl, alkenyl, substituted alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, aryl, heteroaryl and heterocyclic;

R^e is a saccharide group;

each R^f is independently alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, aryl, heteroaryl, or heterocyclic;

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alkynylene;

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 R^x is a nitrogen-linked amino saccharide or a nitrogen-linked heterocycle; X^1 , X^2 and X^3 are independently selected from hydrogen or chloro; each Y is independently selected from the group consisting of oxygen, sulfur,

$$-S-S-, -S-C(=O)-, -C(=O)-S-, -NR^{c}-, -S(O)-, -SO_{2}-, -NR^{c}C(O)-, -OSO_{2}-, -NR^{c}C(O)-, -NC^{c}C(O)-, -NC^{c}C(O)-, -NC^{c}C(O)-, -NC^{c}C(O)-, -NC^{c}C(O)-, -NC$$

$$5 \qquad -OC(O)-, -NR^cSO_2-, -C(O)NR^c-, -C(O)O-, -SO_2NR^c-, -SO_2O-, -P(O)(OR^c)O-, \\$$

$$-P(O)(OR^{c})NR^{c}-, -OP(O)(OR^{c})O-, -OP(O)(OR^{c})NR^{c}-, -OC(O)O-, -NR^{c}C(O)O-, -OP(O)(OR^{c})NR^{c}-, -$$

$$-NR^{c}C(O)NR^{c}$$
, $-OC(O)NR^{c}$, $C(=O)$, and $-NR^{c}SO_{2}NR^{c}$;

each Z is independently selected from hydrogen, aryl, cycloalkyl, cycloalkenyl, heteroaryl and heterocyclic;

 $n ext{ is } 0, 1 ext{ or } 2; ext{ and }$

x is 1 or 2;

or a pharmaceutically acceptable salt, stereoisomer, or prodrug thereof; wherein the glycopeptide is substituted with one or more groups wherein Y is -S-S-, or -S-C(=O)-;

provided R³ is not a substituent that comprises more that one carboxy group.

- 5. The glycopeptide of claim 4 wherein R¹ is an amino saccharide group substituted on the amine with a substituent that comprises one or more disulfide or thioester bonds.
- 6. The glycopeptide of claim 4 wherein R¹ is an amino saccharide group substituted on the amine with a group of formula -R^a-W-R^h wherein: W is -S-S- or -S-C(=O)- and R^h is alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkyl, aryl, heteroaryl, or heterocyclic.

- 7. The glycopeptide of claim 4 wherein R^a is alkylene, substituted alkylene, alkenylene, substituted alkenylene, alkynylene, substituted alkynylene, -C(O)-alkylene, substituted -C(O)-alkylene, -C(O)-alkynylene, or substituted -C(O)-alkynylene.
- 5 8. The glycopeptide of claim 4 wherein R^b is alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, or substituted alkynyl.
 - 9. The glycopeptide of claim 4 wherein R¹ is a saccharide group of formula (III):

wherein R^{15} is $-R^a$ -W- R^h ; and R^{16} is hydrogen or methyl.

- 10. The glycopeptide of claim 4 wherein R², R⁴, R⁶, and R⁷ are each hydrogen.
- 10 11. The glycopeptide of claim 4 wherein R^3 is -OH.
 - 12. The glycopeptide of claim 4 wherein R⁵ is hydrogen, -CH₂-NHR^c, -CH₂-NR^cR^e or -CH₂-NH-R^a-Y-R^b-(Z)_x.

13. The glycopeptide of claim 4 which is a compound of formula II:

wherein:

R¹⁹ is hydrogen;

 R^{20} is $-R^a-W-R^h$;

-C(O)-heterocyclene;

Ra is alkylene, substituted alkylene, alkenylene, substituted alkenylene, alkynylene, substituted alkynylene, cycloalkylene, substituted cycloalkylene, cycloalkylene, substituted cycloalkenylene, arylene, heteroarylene, heterocyclene, -C(O)-alkylene, substituted -C(O)-alkylene, -C(O)-alkenylene, substituted -C(O)-alkynylene, substituted -C(O)-alkynylene, -C(O)-cycloalkylene, substituted -C(O)-cycloalkylene, -C(O)-cycloalkenylene, substituted -C(O)-cycloalkenylene, -C(O)-heteroarylene, or

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R^h is alkyl, substituted alkyl, alkenyl, substituted alkenyl, alkynyl, substituted alkynyl, cycloalkyl, substituted cycloalkyl, cycloalkenyl, substituted cycloalkenyl, aryl, heteroaryl, or heterocyclic;

W is -S-S- or -S-C(=O)- and

- R³, and R⁵ have the values defined in claim 4; or a pharmaceutically acceptable salt, stereoisomer, or prodrug thereof.
 - 14. The glycopeptide of claim 13 wherein R^a is alkylene, substituted alkylene, alkenylene, substituted alkynylene, -C(O)-alkylene, substituted -C(O)-alkylene, -C(O)-alkenylene, substituted -C(O)-alkenylene, -C(O)-alkynylene, or substituted -C(O)-alkynylene; and R^h is alkyl, substituted alkyl, alkenyl, substituted alkynyl, or substituted alkynyl.
 - 15. The glycopeptide of claim 13 wherein R^{20} is $-(CH_2)_3S-S(CH_2)_7CH_3$.
 - 16. A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of claim 1.
 - 17. The pharmaceutical composition of claim 16, which comprises a cyclodextrin.
 - 18. A method of treating a mammal having a bacterial disease, the method comprising administering to the mammal a therapeutically effective amount of a glycopeptide of claim 1
- 20 19. A method of treating a mammal having a bacterial disease, the method comprising administering to the mammal a therapeutically effective amount of a glycopeptide of claim 4.

- 20. A method of treating a mammal having a bacterial disease, the method comprising administering to the mammal a therapeutically effective amount of a glycopeptide of claim 13.
- 21. A method of treating a mammal having a bacterial disease, the method comprising administering to the mammal a therapeutically effective amount of a pharmaceutical composition of claim 16.